



Example of Principal System Engineer Job Description

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Our growing company is looking for a principal system engineer. To join our growing team, please review the list of responsibilities and qualifications.

Responsibilities for principal system engineer

- Work with Engineering teams to define detailed Engineering requirements and system-level design, providing architectural expertise and guidance
- Deliver diversified consultancy services for systems engineering management and safety assessment to our clients in the development project for safety critical railway systems
- Support the System & Safety Engineering Department to undertake business development activities locally and internationally in line with the business growth strategy
- Experimentally bring up and conceptually prove next generation 100G/400G transmission system
- Validate the optical performance of new hardware including DSP, Driver, Amplifier, transmitter, receiver and next generation transceivers
- Cross-functionally collaborate with HW, FW and SW teams aimed at delivering high-quality products
- Translate the US Army Intelligence and Security Command (INSCOM) G7 Modernization Branch's operational airborne intelligence requirements into specific systems, applications or process designs for very large complex solutions and integrating architecture
- Subject Matter Expert on aircraft-overhead systems to include TNG, CEGS, NCCT and Guardian Eagle
- Provide technical input to Operational Need Statements for SIGINT Systems
- Enhance INSCOM G7 systems modernization strategies, to include analysis of transition planning, intelligence information requirements, and may develop architecture baselines

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- Possess an inclination for critical thinking and analytical approaches to solving problems dealing with issues that are not readily defined and/or conflict with available information with the ability to reach sound decisions quickly
 - Currently possess a TS clearance
 - Experience performing requirements analysis, system design testing and deployment of complex IT systems
 - System Administrator certifications
 - Microsoft Active Directory and Domain Controller skills and/or networking certifications
 - Familiarity with DoS processes